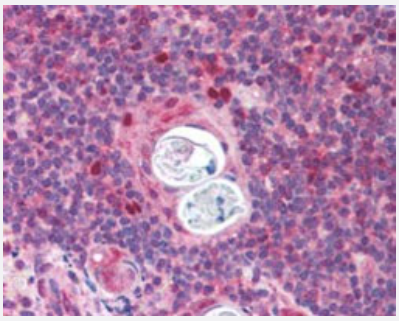
# AIRE polyclonal antibody

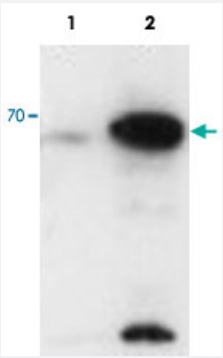
Catalog # PAB6198 Size 100 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

AIRE polyclonal antibody (Cat # PAB6198) staining (2.5 ug/mL) of paraffin embedded human thymus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.




### Western Blot (Transfected lysate)

AIRE polyclonal antibody (Cat # PAB6198) staining (0.01 ug/mL) of HEK293 cell lysate untransfected (lane 1) and transfected with human AIRE (lane 2) . Data kindly provided by Prof. Part Peterson, University of Tartu, Estonia.

## Specification

| | |
|---|---|
| **Product Description** | Goat polyclonal antibody raised against synthetic peptide of AIRE. |
| **Immunogen** | A synthetic peptide corresponding to human AIRE. |
| **Sequence** | C-QSMARPAAPFPS |
| **Host** | Goat |
| **Theoretical MW (kDa)** | 57.7, 36.5 |
| **Reactivity** | Human |

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| | |
|---|---|
| **Specificity** | This antibody is expected to recognize isoforms 1 and 2 (NP_000374.1 and NP_000649.1 respecively). |
| **Form** | Liquid |
| **Purification** | Antigen affinity purification |
| **Concentration** | 0.5 mg/mL |
| **Quality Control Testing** | Antibody Reactive Against Synthetic Peptide. |
| **Recommend Usage** | ELISA (1:32000)<br>Western Blot (0.01-0.03 ug/mL)<br>Immunohistochemistry (2.5 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide) |
| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  AIRE polyclonal antibody (Cat # PAB6198) staining (2.5 ug/mL) of paraffin embedded human thymus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

- Enzyme-linked Immunoabsorbent Assay

- ChIP

- Western Blot (Transfected lysate)

  AIRE polyclonal antibody (Cat # PAB6198) staining (0.01 ug/mL) of HEK293 cell lysate untransfected (lane 1) and transfected with human AIRE (lane 2) .
  Data kindly provided by Prof. Part Peterson, University of Tartu, Estonia.

## Gene Info — AIRE

| | |
|---|---|
| **Entrez GeneID** | 326 |
| **Protein Accession#** | NP_000374.1;NP_000649.1 |

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| | |
|---|---|
| **Gene Name** | AIRE |
| **Gene Alias** | AIRE1, APECED, APS1, APSI, PGA1 |
| **Gene Description** | autoimmune regulator |
| **Omim ID** | 240300 607358 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes a transcriptional regulator that forms nuclear bodies and interacts with the transcriptional coactivator CBP. At least three splice variant mRNAs products have been described including one which results in a premature stop codon and a transcript predicted to be a candidate for nuclear-mediated decay (NMD). Defects in this gene cause the rare autosomal-recessive systemic autoimmune disease termed autoimmune polyendocrinopathy-candidiasis-ectodermal dystrophy (APECED). [provided by RefSeq |
| **Other Designations** | autoimmune polyendocrinopathy candidiasis ectodermal dystrophy |

## Publication Reference

- The autoimmune regulator (AIRE) is a DNA-binding protein.

  Kumar PG, Laloraya M, Wang CY, Ruan QG, Davoodi-Semiromi A, Kao KJ, She JX.

  J Biol Chem 2001 Aug; 276(44):41357.

  Application: IP, KA, WB, Mouse, Mouse thymus, Recombinant proteins

## Pathway

- Primary immunodeficiency
- Ubiquitin mediated proteolysis

## Disease

- Addison Disease
- Alopecia Areata
- Autoimmune Diseases
- Autoimmune polyglandular syndrome
- Candidiasis

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- Diabetes Mellitus
- Genetic Predisposition to Disease
- Graves Disease
- Hepatitis
- Hypercholesterolemia
- Hypoparathyroidism
- Melanoma
- Obesity
- Ovarian Failure
- Polycystic Ovary Syndrome
- Polyendocrinopathies
- Puberty
- Scleroderma
- Skin Diseases
- Syndrome
- Thrombophilia
- Thyroiditis
- Tobacco Use Disorder
- Vitiligo

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